

ABSTRACT OF THE DISCLOSURE

A mining member designed as a cutting roller for a continuously operating surface miner for mining mineral raw materials of high strength. The roller body is equipped for this purpose with mini-disk bits of identical design. Since different conditions occur over the entire width of the roller during the separation of the material from the soil, the roller body is designed correspondingly, and the arrangement of the mini-disk bits is adapted to these conditions. The mini-disk bits in the edge areas are placed at a greater density than are the mini-disk bits (7) in the middle area. In addition, mini-disk bits are directed obliquely toward the outside as free-cutting bits at the two outer edges of the cutting roller. The height of the mini-disk bits is selected to be such that their individual virtual rolling paths together form a virtual cutting roller body, which comprises a middle cylinder, which is joined on both sides by outwardly tapering frusta. This solution is associated with the advantages that more mini-disk bits are available per unit area in the critical edge areas for separating the material and for cutting the roller free, and the cutting height H_{Schn} is smaller there.